SEQUENCE LISTING

<110> Pyle, Ruth A.
Xu, Jiangchun

<120> COMPOSITIONS AND METHODS FOR THE THERAPY
AND DIAGNOSIS OF PANCREATIC CANCER

<130> 210121.543

<140> US
<141> 2001-07-30

<160> 32

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 888
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 663, 668, 743, 748, 749, 784, 786, 803, 820, 823, 832, 862,
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<223> n = A,T,C or G

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tctgcagtct aaaagtatac aattccttta ttttagcctt accactcaaa gtttatttgt 120
aattctttat actttaaaaa ctataaatat atttgaggat cagcacagta atgcccaaca 180
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atcatttgac tgaaaacaag cttccttctc tattatttgt tactgagtca ttcaccttta 300
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ggaataaaga cttacctaaa atggttgaca acattcatct ggctaagaaa tgaaagtaca 420
aaggaccctg gcctccgatc actctctctt ataagataac tgccagactt ccctgcctgc 480
ctgaggcgtt cttctgctat cgttctgtca agttttccgt gataccacct aagggaaaaa 540
cagagaagat attacaatat aaatagcaag tgcagaattt ctatggacac ttgaaaaaca 600
tactactaga gggtttaaat gcctacatgt aacttaaaca tttacatttt actctgaacc 660
agntattnca attttaactc aatttacctc agtctcaaaa aaaactcatt tacttgggct 720
ttaatttggt ctaaaagctc agncctannc atctcatata taaaactctt ccttttttacc 780
catntnctac ttcaggatgg cgntttcaaa ataacctcgn acncacttct tnaaataaag 840
atgccatggg ggtattctcc cnctttttgga ccgatccngg gcgggcct 888

<210> 2
<211> 1118
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> 44, 76, 81, 139, 141, 369, 374, 422, 425, 482, 551, 557,
562, 604, 612, 623, 673, 685, 699, 700, 707, 709, 720, 726,
727, 745, 762, 766, 767, 784, 793, 803, 814, 819, 832, 834,
847, 851, 865, 867, 868, 884, 889, 899, 901, 902, 903
<223> n = A,T,C or G

<221> misc_feature
<222> 904, 905, 909, 911, 912, 921, 950, 973, 986, 992, 993, 997,
1007, 1008, 1011, 1012, 1014, 1017, 1018, 1023, 1024, 1031,
1032, 1033, 1035, 1054, 1055, 1062, 1063, 1065, 1080, 1083
<223> n = A,T,C or G

<400> 2
gttttttttt ttttttttt tttcatcgga aaatagttta attntgtaca gacaaccacg 60
ggactgatta caaagngcgg ngcaaacacc agggcccatg agcgccagca gcgtggccca 120
ccacgtgccg gggctccana naccacgccc gaaacaccaa ataaatcaca gacgtgacaa 180
ttgcgggagg agcatgaatc agctgttcct tcgggaggag aaaaaggaaa caacaatcag 240
aggctttgga atgctttctc ttcatgtgcc tggaacgctg ggcgggcggt gacccggggc 300
tcggagcccc accctggcca cacctgctgt cgcccacggg gtcctcacgg tggggaccca 360
ggtcccacna cggntcccaa cctgtggagc tgtgtgcgca gccaccacca ctgcggcctc 420
anaanagggg ccgggagccc tggttctcaa actccgacca ggcgtcattc agctccatga 480
anatcatctt ggcgtgctgc tcgtacgggt gccccgcacc ttgtcggggt gcacggccag 540
caccgggcgg ngatagngct tnttccttgc tccggacccc aggtcggcca ttcccacggg 600
cgtncagggg gnttttcccc gtnccaaaaa aactgtgttg caacggggga caagcaaggg 660
ccccgggatg ttncccttcc tttgnccttc aattcccann cccaggnanc cttttaaacn 720
tttgannggg ggggcccccg ggttnttttt aaacccaagg gncccnnggg ttttcccccc 780
aaanttttttg ggnaaaaggg ggnctttttt gggnccccnt ttttttttt tnanaaaacc 840
ttgggganggg naaaaaaccc ctttntnntt ggggaacaaa ccanaaaant ttttaaaang 900
nnnnntttnt nnaaaaaaaa nttttggggt tttttgaaac aaaaaaattn gggggggggg 960
gggaaacccc ccnttttttt ttgggncccg gnnaaanttt aaatttnngg nnanttnngc 1020
ttnnttttte nnncntttttg gggggggttt tttnnggggg gnnanaaaac ccctcctttn 1080
ggnctttttt ttaaaaaatt tttttttttgg gggggggct 1118

<210> 3
<211> 974
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 553, 592, 630, 656, 684, 686, 739, 770, 794, 807, 814, 821,
841, 849, 861, 876, 892, 924, 956, 963
<223> n = A,T,C or G

<400> 3
gcgaggcttc agtgagccag gatggaaacg cgtgtcccaa gtgtctggac accgccgccg 60
ccactgcgac ctagcgccgc cgccgccggg gcccaatgcc ggtcatgccc attccgcggc 120
gggtgcgctc cttccacggc ccgcacacca cctgcctgca tgcggcctgc gggcccgtgc 180
gcgcctccca cctggcccgc accaagtaca acaacttcga cgtgtacatc aagacgcgct 240
ggctgtacgg cttcatccgc ttcctactct actttagctg cagcctgttc actgcggcgc 300
tctggggtgc gctggccgcc ctcttctgcc tacagtacct gggcgttcgc gtcctgctgc 360
gcttccagcg caagctgtcg gtgctgctgc tgctgctggg ccgccggcgc gtggacttcc 420
gcctggtgaa cgagctgctc gtctatggca tccacgtcac cagcagcatc ttaaaagccc 480

caggtatatg ctgagatctt atctcacgct gtcctccagt gtctgggggg cccaaatgat 540
ggcacagggg cangtgggct ggaagggcgc aaaatgcctg tgtttaaggg anggtggcca 600
ccatggggcc cgagggtctt acccaagaan cccttggctt ttggttcctt aaaccnttgc 660
aagtcaaccg gggaagcaac ttantngggg gggacctggg cccaattggg cccgtggtgg 720
aacttttttg ggggggccna aaattggggg aaaggggccc ccccccttggn aaataaaatg 780
gaaattgggc caangggaac aaaccanggg caanaaaggg nttaccccct taaaaaacca 840
ngggaaccnc caggggggggg ngggggacct tggacnaacc ccctaatggg gnacccctcc 900
aaaatccatg gttccccccc cctnttgggg attgggggggg gaatttttga ccctancctt 960
ttnggggggaa caaa 974

<210> 4
<211> 865
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 549, 567, 606, 668, 671, 687, 703, 732, 763, 777, 790, 799,
807, 847, 861
<223> n = A,T,C or G

<400> 4
gctcaccggt gagacctgga agcgggcgag tctcgtgctg tgtcggacct gcagcccctg 60
gccttccgcc accatggagt acctcatcgg tatccaaggc cccgactatg ttcttgtcgc 120
ctccgaccgg gtggccgcca gcaatattgt ccagatgaag gacgatcatg acaagatgtt 180
taagatgagt gaaaagatat tactcctgtg tgttggagag gctggagaca ctgtacagtt 240
tgcagaatat attcagaaaa acgtgcaact ttataagatg cgaaatggat atgaattgtc 300
tcccacggca gcagctaact tcacacgccg aaacctgctg actgtcttcg gagtcggacc 360
ccatatcatg tgaacctcct cctggctggc tatgatgagc atgaagggcc agcgctgtat 420
tacatggact acctgcagcc ttggccaagg ccccttttgc agcccacggc tatggtgcct 480
tcctgactct cagtatcctc gaccgatact acacacccga ctatctcacg tgagaaggca 540
gtggaactnc ttaggaaatg tctggangaa ctccagaaac gcttcatcct gaatcttgcc 600
accttnagtg ttcgaatcat tgacaaaaat ggcattcatg acctggataa catttccttt 660
ccaaacangg nttctaacat tattgtnctc ccttcccctt tgncagggaa ctttttttt 720
gaaggggctc cnttatttt tttctactct tttcaaggcg ccnctttttg ataaaanggg 780
ttaatttcan aaaaaaaang gggactnttg ggatattaat ttgaaaaaaa aaaaaaaaaa 840
aaagggnggg ccgcttttaa ntttt 865

<210> 5
<211> 731
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 513, 520, 537, 561, 620, 627, 663, 715, 717
<223> n = A,T,C or G

<400> 5
gtgaagttct ttctgttgct tttcaccatt gggttctgct gggctcagta ttccccaaat 60
acacaacaag gacggacatc tattgttcat ctgtttgaat ggcgatgggt tgatattgct 120
cttgaatgtg agcgatattt agctccgaag ggatttggag gggttcaggt ctctccacca 180
aatgaaaatg ttgcaattta caacccttc agaccttggt gggaaagata ccaaccagtt 240
agctataaat tatgcacaag atctggaaat gaagatgaat ttagaaacat ggtgactaga 300

tgtaacaatg ttggggttcg tatttatgtg gatgctgtaa ttaatcatat gtgtggtaac 360
gctgtgagtg caggaacaag cagtacctgt ggaagttact tcaaccctgg aagtagggac 420
tttccagcag tcccatattc tggatgggat ttcaatgatg gtaaatgtaa aactggaagt 480
ggagatatcg agaactacaa tgatgctact cangtcagan aatgtcgtct gactggnctt 540
cttgatcttg cactggagaa ngaatacctg ccgtctaaga atgccgaata tatgaaccat 600
ctcattgcat tggtgtgcan gggtcanctt gatgctttca acccatgtgg gctggaacat 660
aangcaattt ggacaactgc ataatctaac aatactggtt cctgcaggaa gtaancnttc 720
tttcccagaa g 731

<210> 6
<211> 848
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 522, 537, 547, 596, 622, 682, 704, 708, 747, 755, 775, 828,
848
<223> n = A,T,C or G

<400> 6
ggtcaaaggc ttggcccgtt gccttttcct tcccggcaat actcggttca attaggtctt 60
gtcccctcat tatctgtgag gactgaattc cacccccgct tttcaacgca ggctctttgc 120
tcgggaaaag tcaaaccatc tctcaaagga tcaaagagct cagccataga cagagccgcc 180
ggaggaaagc ggagtcgctg catcagatga aaggggcccc tcagcctcac tcctcaccgc 240
agctcctggg atcttaaaga cagggtcagg aggatcagga gggacaagag ggatggaggc 300
gaaaggctgg atccttaatc caggccggag acaaagccgc gccagggagc tcgcggcgcg 360
cggcccctgt cctccggccc gagatgaatc ctgcggcaga agccgagttc aacatcctcc 420
tgccaccgac tcctacaagg ttactcacta taaacaatat ccacccaaca caagcaaagt 480
ttattcctac tttgaatgcc gtgaaaagaa gacagaaaac tncaaattaa ggaaggngaa 540
atatgangaa acagtatttt atgggttgca gtacattctt aataagtact taaaanggaa 600
agtagtaacc aaagagaaaa tncaggaagc ccaagatgtc tacaaagaac attttccaag 660
atgatgtctt ttaatggaaa anggatggaa ctacattctt tganacanta ttgaatgggg 720
gatttttttcc aatacaaaaa aaaaaanctt ggttncttga agggggtttt ggtantttttt 780
ccaaaaaggg aaaaaggttt ttttttttttc cccgggggggg gaaaaaancc ccccccccccc 840
cccccgan 848

<210> 7
<211> 737
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 669, 685, 718, 722
<223> n = A,T,C or G

<400> 7
gcctgtcagg acacagcatg gacatgaggg tccccgctca gctcctgggg ctcctgctgc 60
tctggctccc aggtaccaga tgtgacatcc agatgaccca gtctccatcc tccctgtctg 120
catctgtagg agacagagtc accatcactt gccgggcgag tcagggcatt agcaattctt 180
tagcctggta tcagcagaaa ccagggagtg cccctaagct cctactccat gctgtatcca 240
acttggaaag tggggtccca tccaggttca gtggcagtgg atctgggacg gattacactc 300
tcaccatcag cagcctgcag cctgaagatt ttgcaactta ttactgtcaa cagtattata 360

gtaaccctcc ggtcactttc ggcggaggga ccaaggtgga gatcaaacga actgtggctg 420
caccatctgt cttcatcttc ccgccatctg atgagcagtt gaaatctgga actgcctctg 480
ttgtgtgcct gctgaataac ttctatccca gagaggccaa agtacagtgg aaggtggata 540
acgccctcca atcgggtaac tcccaggaga gtgtcacaga gcaggacagc aaggacagca 600
cctacagcct cagcagcacc ctgacgctga gcaaagcaga ctacgagaaa caccaagtct 660
acgcctgcna aagtcacccc atcanggcct ggagcttcgc cccgtcacaa aaaaagcntt 720
tnaacaaggg gaaaaat 737

<210> 8
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 668, 680, 689, 700, 705, 755, 761
<223> n = A,T,C or G

<400> 8
ggcgcccgcg cgcgacggcc cggccagcga ggccgcgctg cagctgctgt gccgcgccga 60
cgccggcccg ctctgcgccg cctgccgtat ggctgcgggc cccgagccgc ccgagtggga 120
accgcgctgg aggaaggcgc tgcgcggcaa ggagaacaag gggtctgtgg aaatcatgag 180
aaaggacttg aatgacgccc gggacctgca tggccaggca gagtcagcag ctgcagtgtg 240
gaagggacac gtgatggacc gtaggaagaa ggcactgacc gactacaaga agctgcgggc 300
cttctttgtg gaggaggagg agcatttcct gcaggaggct gagaaggagg aggggctccc 360
tgaggacgag ctggctgacc ccactgagcg gttcaggtca ctgctgcagg cggtctcgga 420
gctggagaag aagcatcgca acctgggcct cagcatgctg ctgcagtgat ggcgccaacc 480
cgtggcagtc ccagagctgg aggcaggagg atggatcctc atctccatgg gaagtgtcag 540
cgtgtggctg cagggaagcg tggcaggcgc ctgccttggg tccatctaca tagttgcgtg 600
tttcaacaat gtccatttat ccttcaccct gaggcgtgtt ttgggggctg caaacacctc 660
cggtagangc tggacctgan gacccttttnc caccttgtgn ccctnccttt cttgaagtcc 720
taaccacaag cccattcttc cattaagtcc ccggnagctt nt 762

<210> 9
<211> 846
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 782, 793, 805
<223> n = A,T,C or G

<400> 9
accatggact cgggaaccga ggagtacgag ctcaacggcg gcctgcctcc gggcacaccc 60
ggctccccgg acgcctcgcc ggcccgctgg ggctggaggc acgggcccat caacgtgaac 120
cattacgcca gcaagaagag cgcagccgag agcatgctgg acatcgcgct gctgatggcc 180
aacgcgtccc agctgaaggc cgtcgtggaa cagggcccca gcttcgcctt ctatgtgccc 240
ctggtggtcc tcatctccat ctcccttgtg ctgcagatcg gcgtgggggt gctgctcatc 300
ttccttgtca agtacgacct taacaacccg gccaagcacg ccaagctgga cttcctcaac 360
aacctggcca cgggcctggt gttcatcatc gtggtagtca acatcttcat cacggccttc 420
ggggtccaga agcccttgat ggacatggca ccccagcagt aaggacaccc aggaccctgg 480
atgctgcctg ccctgcaact cagctgcccg accccaggag tcgccatacc tgtgaggtgt 540
ccacctccct gcacatggca ctacccagac tgccagagcc caggctggcc tcatctgcac 600

catgtccccg gaccagccct tgctctgact gcggccaagc accacgcagg aggccactct 660
tgtctctcag cagctgttcc caggaagcag cttccttctg gcacatgggg gctgggcaca 720
atagcccaaa agggtcaaaa actgggacaa gcttgcaaaa aactctgtgs cccaaaaaaa 780
anggggtctt tgnaccccaa ctttnaaggg racccccccа agccagggtc cccccgggga 840
aatggg 846

<210> 10
<211> 966
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 20, 100, 102, 103, 640, 698, 705, 747, 768, 772, 778, 779,
793, 811, 815, 830, 838, 844, 853, 854, 855, 862, 869, 870,
871, 872, 873, 883, 897, 907, 914, 946, 949
<223> n = A,T,C or G

<400> 10
gcagttctct tgctgtcctn cgctccactc tgcagtcccg gtgggcgaag ggtgatgagt 60
aagggaccta gaggggtagg gagttggagc ggggggcgcn tnnttgtttc actgctgcgc 120
ccgtcgcctg ctgacgttta ggtctcccag acctggtggc cgacccctac tacatccagg 180
cgtccacgta cgtgcagaag atgtccatgt acaacctgag atgcgcggcg gaggaaaact 240
gtctggccag tacagcatac agggcagatg tcagagatta tgatcacagg gtgctgctca 300
gatttcccca aagagtgaaa aaccaaggga catcagattt cttacccagc cgaccaagat 360
attcctggga atggcacagt tgtcatcaac attaccacag tatggatgag tttagccact 420
atgacctgct tgatgccaac acccagagga gagtggctga aggccacaaa gcaagtttct 480
gtcttgaaga cacatcctgt gactatggct accacaggcg atttgcatgt actgcacaca 540
cacagggatt gagtcctgct gttatgatac ctatggtgca gacatagact gccagtggat 600
tgatattaca gatgtaaaac ctggaaacta tatcctaaan gtcaagtgta aaccccacta 660
cctggttcct gaatctgact ataccaacca atggtgtngc gcttnggaca ttcgctacca 720
caaggaaaat catgccgtat gcctcangct ggaccaattt cacccgtntt anaaaggnna 780
aaaccaaaac ttncccaatg ggaataaaat naaanggcct tgggggggttn tttaaaangg 840
gggnaaaaaa aannnacctt anccttccnn nnnggggaat ttntttttttt tttttgnaaa 900
aaagaanaac cccnaaaaac ccccccaaag gaaaattttt tttttnggna ccggtttttt 960
aaatta 966

<210> 11
<211> 852
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 646, 710, 712, 728, 736, 754, 776, 799, 844, 847
<223> n = A,T,C or G

<400> 11
gacaggattt ccttatttta aagcctgcat agtatttcat catgtacata tactggttgt 60
ttttaaagtg atatggcatt gcctaaaaat aatatggaaa gctttgggca ctatctttat 120
ctctttgcca aatgcccatg tctaatcgag gtttgaggga ataaaacctt gataaactga 180
gaaccgtgaa atgtctttca gggcagaaac tgattttatc aggctccatg tcccaggcac 240
ccagcaggtg ccagagaaat ggtcagctac atgagagtta ccagtttcca ataattcaat 300
acatctaatg gaaggactag ctggagagac agatgcttgc aaacctggca gtggaagcca 360

tggccctgta cctctgtgcc ttggtgcttt tagaaggcag cgctgtcaga gttcaatggt 420
ataaacttca gtaccttgta aactctactt catgtcagtt ttcaaaaaca tactcaacta 480
aatctcacat gtctacactt atttttcagc taccttccca cattgtgtag tttatcaaaa 540
ttagagaaga gtgaaggagc ttaacattcc aacataattt ttttaatacc gtggcaaaaa 600
cacatagcat aaaatttacc cttaatcatt tctaaacata tagagntcag taagtttaag 660
tatattccat tggtggacaa ccagtatcca aaacttttca tcttgcaaan gngaaactgg 720
atttggtnaa caactnttct tttccccagc catncagcac cactttcttt gggagntttt 780
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acanaangtc tc 852

<210> 12
<211> 1090
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 505, 528, 566, 586, 596, 673, 683, 696, 712, 716, 739, 788,
791, 796, 814, 829, 843, 849, 856, 876, 887, 899, 905, 920,
921, 922, 933, 934, 938, 940, 941, 944, 955, 965, 968, 972,
978, 980, 981, 986, 1000, 1038, 1051, 1066
<223> n = A,T,C or G

<400> 12
gctccctttc tccatctctg tcttgcctca cctctgtccc tgtttctgcc tctatatcct 60
tttttcaata tgtctcttga agctttctgg gaccaagctc taggcagtgc cccggggaat 120
aaggacctat gaaatgcaca ttccacgttc cagaaactcg ctgtcatggg tggggctcaa 180
ggagatggat gcagtatcaa tagggtgtga ttcacgctgc tttggagggg ggcacccagc 240
acagccttga gagggctcgt cacccacatg aaggggtcag ggaaggcttc ctggaggagg 300
gggtgtggga taagatttga aggaacagga ggagttcagc aggcagacag aagaaggttc 360
taggtagagc ggcccagagc tgggagagaa tgattggatt ggatcagcca gtaatggaga 420
agtgactgaa agaaattcag tgggcccgag ggtgctagaa gaatgaggtc ttcttccaaa 480
ggtgggaggg ggcagaccac cacangggtc ttccaacgcc aggcttgngg gggctcagac 540
cttcactttg ggagcactgg gggaanccag aaaaagaact tgtganccaa gggaanggga 600
tagggtcaac tcttagtgga catcaccact tgatggacca ggaaaataaa aaggccaagg 660
gaaggaaggc ttnggccgga aangtccaaa accggnaaag tggagtgccc ancttntcac 720
tttccttaag ggctcttcnt tggcttctta acgggccgtt ggccccttga aaggttcttt 780
tccctggnct nggggncttg ggccttgggg ggcntttcct tgccaaaang gcttgggggg 840
ggnccccccnc cccccntttt ttttcccccc caaaanggcc cggggangtt ccccccttnc 900
aaccnaaatt tttaaacaan nnaatttttt ccnnaagnan ncangtttgg gggcngggcc 960
ttccnttnaa gnccttgncn nggggntttt ttccttaacn ttcccgcccc gccgggtttt 1020
tctttttttc ccccaaanaa aaaatttttt nggggccggg accccncccc cggggggggg 1080
gggggcaaaa 1090

<210> 13
<211> 841
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 661, 716, 724, 729, 751, 762, 785, 790, 805, 834
<223> n = A,T,C or G

<400> 13
gggccgatgc tgcttctaca cggcggggac gttgtccctg ctcctgctgg tgaccagcgt 60
cacgctgctg gtggcccggg tcttccagaa ggctgtagac cagagtatcg agaagaaaat 120
tgtgttaagg aatggtactg aggcatttga ctcctgggag aagccccctc tgcctgtgta 180
tactcagttc tatttcttca atgtcaccaa tccagaggag atcctcagag gggagacccc 240
tcgggtggaa gaagtggggc catacaccta cagggaactc agaaacaaag caaatattca 300
atttggagat aatggaacaa caatatctgc tgttagcaac aaggcctatg tttttgaacg 360
agaccaatct gttggagacc ctaaaattga cttaattaga acattaaata ttcctgtatt 420
gactgtcata gagtggtccc aggtgcactt cctcagggag atcatcgagg ccatgttgaa 480
agcctatcag cagaagctct ttgtgactca cacagttgac gaattgctct ggggctacaa 540
agatgaaatc ttgtccctta tccatgtttt caggcccgat atctctccct attttggcct 600
attctatgag aaaaatggga ctaatgatgg agactatgtt tttctaactg gagaagacag 660
ntaccttaac tttacaaaaa ttgtggaatg gaatgggaaa acgtcctttg actggnggat 720
acanacaant gccatatgaa taatggaaca natggggaat tnttttcccc ccttattacc 780
caaanatgan ggcctttatg tcttnccatt tgaattttgc aggggaaggg gtantacttt 840
c 841

<210> 14
<211> 870
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 56, 57, 573, 614, 714, 750, 756, 770, 771, 784, 785, 807,
819, 851, 859
<223> n = A,T,C or G

<400> 14
gctcaaagat taagccatgc atgtctaagt acgcacggcc ggtacagtga aactgnnaat 60
ggctcattaa atcagttatg gttcctttgg tcgctcgctc ctctcctact tggataactg 120
tggtaattct agagctaata catgccgacg ggcgctgacc cccttcgcgg gggggatgcg 180
tgcatttatc agatcaaaac caacccggtc agcccctctc cggccccggc cgggggggcgg 240
gcgccggcgg ctttggtgac tctagataac ctcgggccga tcgcacgccc cccgtggcgg 300
cgacgaccca ttcgaacgtc tgccctatca actttcgatg gtagtcgccg tgcctaccat 360
ggtgaccacg ggtgacgggg aatcagggtt cgattccgga gagggagcct gagaaacggc 420
taccacatcc aaggaaggca gcaggcgcgc aaattaccca ctcccgaccc ggggaggtag 480
tgacgaaaaa taacaataca ggactctttc gaggccctgt aattggaatg aagtcccct 540
ggagaagcaa atatggtatc acggagccat cancagaaga aaacgcccga gaacctgctt 600
gcgacttttg caanggaagt gtaagctacc ttgtcccgga acaagccaga ccaaccaagc 660
atgaactact cccttcttcc ttgaaggagc caaccaaggg gttttattgc ccantgaaaa 720
cttgggccca aaacccaaag aaaaaaaacn tttctngggt caaaaaaaan ncccttcgg 780
tttnnaaaag gggtccccgg gaaggtnatt tcccccttant tacccccccc ccagaaaagg 840
ctttcccccc ntccaaaang gggggtggaa 870

<210> 15
<211> 610
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 57, 340, 345, 351, 354, 356, 372, 375, 380, 382, 387, 392,
395, 406, 416, 418, 422, 426, 431, 465, 467, 471, 490, 499,

505, 506, 521, 532, 545, 557, 583, 589
<223> n = A,T,C or G

<400> 15
gggatattgg cccctcactg cagctgccag cacttggtca gtcactctca gcctttncac 60
tttgttcact gtcctgtgtc agagcactga cctccaccct tttctgagag ttattacagc 120
cagaaagtgt gggctgaaga tggttggttt catgtttttg tattatgtat ctttttgtat 180
ggtaaagact atattttgta cttaaccaga tatattttta ccccagatgg ggatattctt 240
tgtaaaaaat gaaaataaag tttttttaat ggaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaan ggggnggccg ntcnanttta 360
aagggcccgt tnaancccgn tnatcancct cnacngggcc ttttanttgc cacccntntg 420
tngttngccc ntccccgggg ccttccttga ccctggaagg ggccncnccc nctgcctttc 480
ctaaaaaaan gaggaaatng catcnnattg tctgagtagg ngcattttat tntgggggggg 540
ggggngggggc aggacancaa gggggaggat tgggaaacaa tancaggcnt tctggggatg 600
ccgggggggct 610

<210> 16
<211> 762
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 645, 703, 718, 758
<223> n = A,T,C or G

<400> 16
ggtagtggct gcgggcgttt tggttgaatc ttttgctaca aaccatgttt gcgtttgagc 60
tctccaggat tttacatttt tgggtaacct cagtgattcc cattggtgta ggaaatgaga 120
ccctctctga agctgaggag agcacgttga tctgaacttt aaatcaatca gtgctgctgg 180
cacaatgaaa ggtggaactg cacttctgtt gagctctcag ttctgcggaa tttggtactc 240
attaccgtat tcgccgtact aagttggttt ctgttagtct taacagtctg ttttctttta 300
aaagcatgta gggcttcatt gccatgttct gtgggtgttt ggcaggttac cgatggggaa 360
gattcttgtc acagaatcag caataccata gtttttctac atgtgctcag ctgggggtgt 420
ggacaggtag gggtggggaa agaagaggct ctgcgttctg ggggcttttt cttctcctcc 480
ccctacccgg tttccctccc tgttttccta cctctacggc aagcccaaag tgtcttcccg 540
ggagcccagc gcagcccccg gctcttaccc aggaccccgc cccgtgctga gccttctgct 600
gaggtccttg cgtggagcac actcattcct ccaacccttg cgctnccgtt tctctctttc 660
tccgtcacgt tccaccgaat cactggctga ccgggtccat ggnaagcttc ccatcttnct 720
aaaaggctgc ctgcgcatct tgagcctgcg cttccggntt aa 762

<210> 17
<211> 1193
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 19, 20, 22, 50, 55, 495, 496, 521, 522, 529, 531, 535, 552,
567, 568, 573, 576, 592, 602, 606, 611, 617, 621, 623, 635,
636, 671, 687, 699, 704, 721, 722, 732, 761, 771, 775, 786,
812, 817, 823, 853, 873, 874, 882, 891, 892, 905, 908
<223> n = A,T,C or G

<221> misc_feature
<222> 912, 913, 914, 930, 933, 940, 944, 956, 962, 975, 978, 992,
993, 997, 1001, 1008, 1019, 1020, 1021, 1029, 1050, 1066,
1068, 1075, 1076, 1077, 1080, 1095, 1104, 1109, 1117, 1118,
1120, 1123, 1134, 1143, 1191, 1192
<223> n = A,T,C or G

<400> 17
gcccaacaca atggtgcgnn tncgggagaa attgcaggag gagatgcttn agatntagga 60
agccgaaaac accctgcaat ctttcagaca ggatgttgac aatgcgtctc tggcacgtct 120
tgaccttgaa cgcaaagtgg aatctttgca agaagagatt gccttttga agaaactcca 180
cgaagaggaa atccaggagc tgcaggctca gattcaggaa cagcatgtcc aaatcgatgt 240
ggatgtttcc aagcctgacc tcacggctgc cctgcgtgac gtacgtcagc aatatgaaag 300
tgtggctgcc aagaacctgc aggaggcaga agaatggtac aaatccaagt ttgctgacct 360
ctctgaggct gccaaccgga acaatgacgc cctgcgccag gcaaagcagg agtccactga 420
gtaccggaga caggtgcagt ccctcacctg tgaagtggat gcccttaaag gaaccaatga 480
gtccctggaa ccccnnatgc gtgaaatggg aaaaaacttt nncggttgna ncttnttact 540
acccaaaaac tntttgggcc ccttgcnngg gtnagnattt caaatattga angggggaa 600
tnggtnctcc nccttttntgg nanaacccaa aaccnnnctte aaattttaaa aaaaggggcc 660
ccttggcctt ntggaaattg gccccccntcc ccggaaaanc tttnttttta aaggggggcaa 720
nnaaaaacac cnaatttttt tttggctttt tttccaaaac nttttttctt ncctngaacc 780
cttggngggg aaaaccaaaa ctgggattcc cnccccnttg ggnggaaacc cccccaaaaa 840
gggaactttt ttnttaaaac cgggggaact tannaagggg cngggttttt nncaaaaatt 900
ttttnttncc gnnnaccttt taaaaaaatn gcnccccccn gggnggggttt ttttttncccc 960
cnaaaaaaaa aaaanctntt tttttaaaaa annttttnggg nctttttntt ttttggggnn 1020
naaatttttnt gaaaaaaaat tttttttttn ccccccccccc cttttnanaa aaaannnccn 1080
ttttttttaaa aaaangggggg gttnttttng gggggggnnan cantttttttt tttnccccccc 1140
ccnttttttt ttttttaaaa aaaaaaaaaa aaaaaaaggg gggggggggg nnc 1193

<210> 18
<211> 689
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 21, 54, 639, 649, 663
<223> n = A,T,C or G

<400> 18
gggagccata tgggtacctg nggaagctca tttcaggaag caaggggaca gccnttgcta 60
gagtcctgag gcatagcact aaggaggcaa gtgtggctgg agcacagtga gtaagtgggg 120
gagagctgca ggaagtgtgg ccagattgct aacagcggac atgccgtaaa gggtctcaca 180
gacattacga ggactttggc tcttacactg tgtgagatgg gaagtgtatt cattttcttg 240
ttgctgctat cataaattac cacaaatttc gtagcttaaa gcaatgtaga tttattctct 300
ttcagttctg gaggtcagaa gtccaaaaac gagtcttcta tggctaaaag caaggtgtct 360
gcagggccag ttccctctgg agacttcagg ggatgatcca gtccttgcac tttccagctt 420
tgagagccca ctggcactcc ttggctagta gctgcaccac tccaaactcg gcttctgata 480
tatctccttc tctgacttgg accctcctgt cttcctgttt taaagacact catgatgaca 540
ttgggtccac ctggataacc cagaataatc tctccatctc aagatcctta atcacatctg 600
ccatatcttt tttactgggt aaaagggaca tcatcttang gtcttgtgna aataaggatg 660
tgnaaaatat ttgggggaga gcatttttt 689

<210> 19

<211> 678
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 54, 56, 109, 114, 115, 116, 123, 126, 128, 133, 142, 143,
153, 155, 156, 163, 164, 173, 174, 176, 177, 179, 183, 186,
187, 193, 199, 200, 206, 207, 211, 213, 256, 261, 275, 281,
283, 290, 298, 351, 370, 378, 379, 381, 421, 429, 446
<223> n = A,T,C or G

<221> misc_feature
<222> 452, 459, 471, 493, 499, 500, 507, 517, 536, 538, 539, 540,
551, 555, 562, 564, 565, 566, 571, 577, 582, 587, 602, 603,
604, 622, 624, 628, 658, 669
<223> n = A,T,C or G

<400> 19
ggtcactctc tggatatgaa gagcggtccc ctgccgccag gcggttggga tgantntcat 60
ttggactcag cgggccggga aggggacaga gaagctcttc tgggggatnc cggnnntggc 120
aanttntnaa aanccccccaa annttccggg ccnanntaac cannatttgc gtnnanntnt 180
ttnttnncgc ctncagggnn ttcccnnggg ntnggggggaa aaatccctca ttttgcaaag 240
caaaaatgtt agcttnccga ncaagctttt ttcangtttt ncnttttggn ccttcagnct 300
caaaatactt tgggccccgt tgggttgatg ccggctaccg ttaagaactt ngggcggcgc 360
aaaatttggn ttgtcccnnc ncagtttata ctaggaccct tctggaacta tttatccccc 420
ncgggggganc ctttgtttgg gaaaancccc gncaaaaana ccccccgggg ntggttcctc 480
cccgcggggg gcnttttttnn tgggaanaaa ttggggnccc cccaaataaa aaattntnnn 540
ccaatgggat ngggngggggc cntnnnacct nccttttntcc cnggggnaaa aaaggggggg 600
gnnnaatgcc tttctaccaa ananaagngg gggggggggga cccaaaaagg gggggggntt 660
tttttttttnt gggggggaa 678

<210> 20
<211> 695
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 20, 21, 56, 57, 633, 684, 694
<223> n = A,T,C or G

<400> 20
ggaaagctgg tcagaatctn naagatgggg aaggatctgg aagggctcac gggctnnatg 60
actgtttgct ctggtatccc tatagccttg aggaggccct cagaaccaca ggatggctgg 120
ggtggggctg gagtggcttg ctctccagtg ggagcttctt tggtaggaga acatggcttc 180
agtggatcca gagatgcctc gtcttccccc tcttcctctt cttccccttc ttcctccact 240
tctgatttct gcttacacag gtgatcaagg aaggccacac ggtgcagaag tggtagttcc 300
tgggaagtag ataaagatat tctcaggcat gaagcctttt cagatacaca aggtttgcta 360
tgaggcactc agtctgctcc atatccagag tggacagtta ctcacctaat cccacgtgtg 420
tggccagtca cctacacagc tcctcatcta gtgttaatgg tcattaccca gtcctcattt 480
ggagatcagt attccctcat tctacatcta gaatccatgg tcactcacct ggcttcaaat 540
ctaatgtcaa gtggttactc acccagcctc acatctaggg cttatagtca ctcacctggg 600
cccacattca taccaatgac ctcacattgt ggngcagcag tcattcatcc agctgtcagt 660

ccaggtcacc caccttggct tgcncctatt ccana 695

<210> 21
<211> 760
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 75, 601, 606, 627, 653, 701, 739, 741
<223> n = A,T,C or G

<400> 21
ttttttttttt tttttatttt aaaactatct tatatatttt cttttattga tacatatttt 60
acatatatat aaggnacaca tgagcatttc ttgcatgcat agaatgtgta atggtcaagt 120
cagcgtattt ggggtatcca tgatcttgag tatttaccac ttctatgtgt tggtaacatt 180
tcaagtcctc tcttccaact actttgaaat atgcaatata tttttgctaa ctatagttca 240
ctctagtatg ctttctaaca tcagaactta ttcctttgat ctaaatggaa atttgtacat 300
attcaccaat ttctcttcat ttccccttct cagccccgga taacttattc tattccctat 360
ctccatgagg tgaagttttt cacctcccac atataagtga gaacatgtgg tatttgtctt 420
tctgtgcctg gcttatttca cttaccataa tgacctcaag ttccatccat gttgttagca 480
ataacatttt actctttttt atggccaaat agtattccac tgtgtacata aacattttct 540
ttatccctgt gccactgatg gatgcttagg ttaattccat atctttggta tcatgaatag 600
ngctgngata aatatgcaag tgcaagnatc tctttgatat actgattctt ttnctggggg 660
tatacctggg ttgctggaac atgggggggg tctattttta nggttttgga gaaaactaca 720
tactggtttt ccccaggang ngggtctaaa ttataccttc 760

<210> 22
<211> 832
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 307, 335, 337, 343, 358, 467, 516, 573, 591, 599, 647, 692,
723, 741, 749, 751, 757, 761, 771, 800, 818
<223> n = A,T,C or G

<400> 22
catgataatg cacactggag atggacctca taaatgtaag atatgtggga aaagctttga 60
ttctcccagt tcatttcgaa gacatgaaag aattcacact ggggagagac cctataagtg 120
taaactatgt gggaaaggct tcaggtcttc cagttacatt caactacatg aaaggactca 180
cactggagag aaaccctatg gttgtcagca atgtgggaaa gcattatctg atctctcaag 240
ctttcgaaga cacatgataa cacatactgg aaatggacct cataaatgta agatatgtgg 300
gaaaggnttt gattatccca gttcagcgca aacangngag aantctcact ctggaganac 360
cctatgaatg caaggaatgt ggtaaagcct tcagtcattc aagttactta cgaatacccc 420
gaaagagttc atactggaga gaaacccgta taaatgtaaa ggaatgnggg aaaccatttc 480
attggtcccc ggaggccttt tcataaacct tgaaanggac ccaccagtat tgggagaaaa 540
cccctattaa gtgtaaaaga aatgggggggg ggnaagcaat ttttcatttg naatcaagnt 600
tccctttca ttaaaaccat ggaaaatggg accttcacct tagaagnaaa aaacccccctt 660
attgaagtgg gttggaaacc attggtggaa gnaaaaggcc ctttaaagta ccttttttcaa 720
gcntttttttt taccaaaatt ncccctttang naagacnttc nccaccttgg naaaaaaaaa 780
ggtttggttt ttggaaattn tttaaaaaaa atgggtancc ttaaaaaaac cc 832

<210> 23
<211> 728
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 20, 55, 559, 598, 651, 670, 707, 722
<223> n = A,T,C or G

<400> 23
ggtcagagcc actgaaaccn ttgcattctt tagcccttcg tgggcttctg atggnttcac 60
acagatgaag tgcttcattt ttatccctct ggcatccctg ctgcaccata agccctgtag 120
cacttgataa gatagatggg aatactgagc tcagagagcc cgcagtagca ggagagacag 180
ggatttgaca aatgagaatg catagaaaaa tgctgggact atgaggagct cgaggtgatg 240
gtgaggctta tgaaggtctg cagctgacac ctggtgtgga gtggaacttg gccagggtaa 300
agaaaggggg caggaaagat gtgccatgca gaggggagca ctgcctgtaa gggccaagat 360
ggaagggatc acagtaaatg caaaactcag aaaaatcggt tatgtttgtg atggaaggga 420
gcagaggttg gagctggcac tgccagtggg gactttagtc ctaaagcaaa gcaaaatgtt 480
cttctaaaac agtagggctc gatccctgag ttccagaaac tggtggcacc actggatttg 540
acctttagag atttaccang ctgcatgtgt ggtggatggt ggacagaaga tgggggcnag 600
gctggacaca ggctacccca gctattgcca tgccctcttg atgggggtgg ngcttggata 660
ggagtgatgn gatgtctgac tggggaaaga ctacccgtgt ggagtgngat ttgggaataa 720
antgcaga 728

<210> 24
<211> 203
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 20, 21, 56, 195, 197
<223> n = A,T,C or G

<400> 24
ggtctacaca gaagtgggcn ntgacatggt tctggtttaa ctaatatttg gctgtntgct 60
actaacagat tataataaat tgtcatcagt gaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 120
aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa agggnanccc cct 203

<210> 25
<211> 990
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 55, 531, 541, 585, 609, 625, 637, 652, 653, 691, 703, 727,
747, 748, 753, 754, 757, 760, 784, 791, 797, 806, 823, 836,
855, 870, 874, 902, 923, 927, 964, 967
<223> n = A,T,C or G

<400> 25

gacacaatgt tggcactctt ggttctggtg actgtggccc tggcatctgc tcatnatggt 60
ggtgagcact ttgaaggcga gaaggtgttc cgtgttaacg ttgaagatga aaatcacatt 120
aacataatcc gcgagttggc cagcacgacc cagattgact tctggaagcc agattctgtc 180
acacaaatca aacctcacag tacagttgac ttccgtgtta aagcagaaga tactgtcact 240
gtggagaatg ttctaaagca gaatgaacta caatacaagg tactgataag caacctgaga 300
aatgtggtgg aggctcagtt tgatagccgg gttcgtgcaa caggacacag ttatgagaag 360
tacaacaagt gggaaacgat agaggcttgg actcaacaag tcgccactga gaatccagcc 420
ctcatctctc gcagtgttat cggaaccaca tttgagggac gcgctattta cctcctgaag 480
gttggcaaag ctggacaaaa taagcctgcc attttcatgg actgtgggtt ncatgccaga 540
nagtgggatt tcttcttgca ttcttgccag tggttttgta agaanaggct tgttcgtacc 600
ctatggacng tgagaatccc aagtngacag aaccttnttc gaccaaggtt annacttttt 660
attgtccctg ccctggggct tcaaataatt naatggggta cantttacc accttggga 720
acccaanaaa gcccgatttt ttgggannaa aannaanttn ggtttccccc ccattacttg 780
ggantcttaa ncttgcnatt tgggcncaaa acccccccaac canaaaaatt tttaangcct 840
gggttggggg ggggnaaaaa tgggaccctn tttnaaaccc cctggggatg gaaaaattta 900
cntgggggac cttgccccaa aantttngaa aaggggaacc aagggcctgg gttttttttt 960
tccncanaaa aatttttttt ttttaagggg 990

<210> 26
<211> 769
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 50, 572, 624, 625, 641, 648, 701, 705, 714, 764, 768
<223> n = A,T,C or G

<400> 26
ggtgccttga tgtccttgct tcttagcttc ccaaattccc tccggaactn actgatctcc 60
ttctaagctt tgccttggcc tgaactggtt ctggggaaaa acaaaaaaac aaaaaacaac 120
ttgtggagct gcttgttaat gagtttcata accaggcagc aagagccagc tccaagcctc 180
aagcccactg tctactccct gccctgcggg agcctctggc cagtctgctg cctcccaccc 240
ttcctccctg cctctcttca ccacagggca gctgccgtgg aggacagaca atggagcagc 300
tgtcctgccc tggcaccctg cataccagct gtccactctt atctgcacac acactttctg 360
ggatattaag aggtggagct ttgtgcacag aattgggaag tgggggagga ggaggggaa 420
gacttctgac cctctcttag aagaaaaggg gatagggtgg ggggtggggg cttccgagag 480
ccctttttgtc cttgagcccc tgtgttaaga agaatgctca tccccagggc tgagtcaaag 540
tcccaggcta ctaggcaggg gggcaagtcc tncacaacct gggaagaata actcagcttg 600
ggattgctga ctgaagccgg cganntgtgt cctggcccaa ngggcggnag cccttgtggg 660
aggacttggc gtggggcttg acctggtttt tcttttgttg naacnactgc ctgnctggat 720
gggaagaaca acatggattt ttggacaaac ccagggaatg caantaant 769

<210> 27
<211> 1182
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482,
483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494,
495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506,
507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517

<223> n = A,T,C or G

<221> misc_feature
<222> 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529,
530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541,
542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553,
554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564
<223> n = A,T,C or G

<221> misc_feature
<222> 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576,
577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588,
589, 590, 603, 605, 607, 609, 610, 637, 638, 639, 641, 645,
650, 652, 653, 654, 656, 669, 670, 671, 672, 674, 679
<223> n = A,T,C or G

<221> misc_feature
<222> 684, 691, 692, 699, 714, 720, 731, 733, 738, 741, 767, 774,
782, 783, 784, 796, 804, 809, 810, 811, 812, 813, 814, 816,
820, 821, 822, 832, 840, 841, 846, 847, 848, 864, 886, 888,
889, 890, 899, 900, 901, 912, 913, 917, 932, 933, 934
<223> n = A,T,C or G

<221> misc_feature
<222> 935, 936, 937, 939, 941, 942, 946, 948, 950, 956, 967, 984,
999, 1015, 1016, 1022, 1033, 1038, 1039, 1040, 1041, 1042,
1043, 1044, 1045, 1046, 1047, 1048, 1055, 1056, 1057, 1060,
1061, 1062, 1063, 1066, 1068, 1088, 1089, 1090, 1091
<223> n = A,T,C or G

<221> misc_feature
<222> 1094, 1096, 1100, 1109, 1110, 1115, 1117, 1121, 1122, 1123,
1125, 1126, 1127, 1128, 1174, 1177
<223> n = A,T,C or G

<400> 27
gcccaacaca atggggacag gctgcatcag aagaggccat caagcagatc actgttcttc 60
tgccatggcc ctgtggatgc gcctcctgcc cctgctggcg ctgctggccc tctggggacc 120
tgacccagcc gcagcctttg tgaaccaaca cctgtgcggc tcacacctgg tggaagctct 180
ctacctagtg tgcggggaac gaggcttctt ctacacaccc aagacccgcc gggaggcaga 240
ggacctgcag gtggggcagg tggagctggg cgggggcccc ggtgcaggca gcctgcagcc 300
cttggccctg gaggggtccc tgcagaagcg tggcattgtg gaacaatgct gtaccagcat 360
ctgctccctc taccagctgg agaactactg caactagacg cagcccgcag gcagcccccc 420
acccgccgct cctgcaccga gagagatgga ataaagcccc tgaaccagcc nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gggggggggc 600
ccntntnann tttaaaaggg ccctttttaaa acccccnnna naaanccccn cnnngngggg 660
gccttttttnn nngnccccnc cccnctttttt nngtttttng ccccccccccc cccngggggn 720
ttttttttttt nancccccngg naaaaggggg ggccccccccc ccccccnggg gggnttttttt 780
tnnnaaaaaa aaaaangggg gggnaaaann nnnncncccn nnttttttttt tnaaaaaaan 840
nggggnnntt ttttttttttt tttnggggggg gggggggggg gggggncnnn aaaaaaaann 900
nggggggggg annttttngaa aaaaaaaaaa annnnnntnt nngggngngn gggggnttttt 960
ttttttnggg gggaaaaaaa cccnggggggg ttgggggggnc ccccccttgg ggggnnaaaa 1020
angggggggg ggnggttnnn nnnnnnnntt ttttnnnccn nnnccntntt ttttttttttt 1080

ttttttttnnn nggntncccn aaaaaaaann gggtntntgg nnnannnncc ccccccccccc 1140
caaaaaatgg gggggggggg gggccccccaa aaanttnttt tt 1182

<210> 28
<211> 792
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 605, 638, 640, 706, 713, 724, 753, 759
<223> n = A,T,C or G

<400> 28
ggacagccca agaagtagga gcagacacag gaacaccgag ctggggctcc agtttctctt 60
attttaaaag gaatcagagg cagcagggga tcgttcagtg gttgtcaaaa cttgagtgtg 120
ggtcagcatc acctggaggg cttatcagaa tgcagcctgc tgggctcacc cccagagttt 180
tggatttttt ttgtgttaca ggtaagcccg agaatttgca tttctgacaa gatcccaggt 240
gaggctcact cgtgctgctg gctttgggat cacacttaac taccggtata gtggggaaag 300
acagggtttg gggtcacaga gggcagagct ggaattccag ctccctccag ctgtcagact 360
ttgggccagg cacttagttc ctctgagcct catctatgaa acgaaaacat ctgggtattt 420
cccccgcaag gggatgatga ggattgtatg agctcatgtg tgttagaagc tgctcgcagc 480
ctttgagtac acagcaagca ctcagtaagt gttaggaccc tttcttgcca aaaatgaagg 540
caccagaaaa cctggtgtaa aaaaattacc acagataaac ctgcaggaac aaaaatgccg 600
gccangtgcc tgtaatccta gcactttggg aagctgangn gggtggatca cctgaggcag 660
gagttcgaga ccagcctggc cacgtggtga aaccctgtct ctctanagaa tanccaggtg 720
tagngatgcc cctataatcc ggttctagga agntgagcng aaatacttga cctgaggtga 780
gtgactgatt cc 792

<210> 29
<211> 693
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 226, 236, 243, 256, 257, 259, 268, 285, 300, 303, 324, 334,
415, 449, 452, 462, 469, 496, 509, 510, 512, 517, 529, 548,
565, 567, 573, 579, 597, 599, 619, 626, 628, 630, 662, 663
<223> n = A,T,C or G

<400> 29
cgccctttttt ttttttttttt ttttttccct taagttacat ttaataacag tgacaatgac 60
caacattgag cagttgcctc gtgctccggt ctcagcactg gcttattaac atactcttac 120
cactcagaga gggacactga ggagaagaga aatggtaaac atcataagaa taaaatgaga 180
ggtaagaata aaatgagagt cagaagcaaa tgggaggaac tctgantcag gaattnggta 240
aanatcgggg gaaacnnant gacctganat aatgggggggt tcatntttgg ggaactgtan 300
ganattcttg gcgcctggag acancagggc aaanaggaag gaagaacctg gatgccctag 360
cgaaccaagc tcccgcattc tatccccaca tccccctgga cgtgtttatt agggnccact 420
ggccaaatga caagctccaa agatcacgng angggggggg tnccccggnc ttttggggcg 480
cccaaaacct ttttttntgcc cttcttctnn gnaaaanccc ccaggaaant ttgcctttgc 540
tccccagnaa aacttgatat gatcntntgc ganccttgna aatgggggag tctcctntnt 600
tgtcttcctg gggcactcna aggagngnan aacgtcaaac cttggggaca tagggtttgc 660
annaatggtg atgaggggtc atcctgggag ggg 693

<210> 30
<211> 1080
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 20, 55, 240, 248, 345, 366, 442, 447, 449, 484, 508, 514,
522, 527, 542, 545, 559, 569, 571, 590, 640, 650, 667, 689,
690, 699, 703, 704, 708, 713, 714, 715, 732, 742, 745, 761,
791, 792, 793, 802, 809, 820, 831, 840, 841, 861, 872
<223> n = A,T,C or G

<221> misc_feature
<222> 873, 939, 975, 993, 1004, 1005, 1008, 1044, 1066
<223> n = A,T,C or G

<400> 30
gggagaagtt ttggctgtgn gtatcaaaaa gaggagttca taaaggtggt ggtanttaaa 60
ctaggcattg aatgatgagt agaatgttgg taactatagt caggggaagg gtattccagg 120
atgggggcct cttcaacatt acatcgctgt ctccagcccc accaacacca cttatgttgt 180
acagtatgcc ttggcaaatt tgactggcac agtggtcaac ctcacccgaa aacagtgccn 240
agaatccnaa gtaaaatccc aagtgaaaac aaagggatct ggtattgaag tacctcatgg 300
ggtcccaggg gccccttttg catttcttaa atgaaaacgg acccngactt cccccgggtg 360
gtggtnccgt ttcttactgg caccgattaa gcccaggggc cctttggtcc ttcccctgccc 420
ttttggaaac ttgaaattca antgggnanc cttcttacct ggaaataact tcttacccat 480
gggnacctgg aaaaaacccc cctttggnaa aaanaaaatt tncccgnggc cccccgggga 540
anatnttttc tttcaattng gcccccggnc naaaaaaaaa acccctttggn aaattttgga 600
atccaacccc ccttggaacc cagttggggg gccttttttcn gggcaatttn ccctccaatt 660
ttttttnttt ccccccttta atttggggnn aacccccttna aannggggnga ttnnnaattg 720
gccccccaaa ancctttggaa anggnccccc ttttttcaaa nttggggtcc ccccccgggg 780
gaaacccccc nnnaaaccct tnggggccnt aacccggggn gggggggggga ncccccccen 840
ntttttttttt ttttgcccaa nttttaaaaa annttcacct tttcttaaaa aaaaattttt 900
tttccccccct gggggcaccc acccccctttt ttttttttna ccttgggaaa ccccccccctt 960
ggggccccgt ttttntaaaa aatgggggat ttnccccttt aaannagngg ggggaccttt 1020
tcccccaaaa aaaaaaccgg gggnaaaaaa aaaaaaaaaa aggggntccc ctttttttcc 1080

<210> 31
<211> 1027
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 21, 53, 54, 88, 91, 94, 369, 467, 539, 579, 582, 598, 606,
623, 634, 644, 651, 668, 674, 684, 703, 718, 731, 744, 748,
756, 758, 788, 798, 803, 817, 818, 830, 850, 851, 853, 867,
883, 888, 889, 894, 903, 905, 906, 907, 909, 919, 922
<223> n = A,T,C or G

<221> misc_feature
<222> 927, 930, 931, 935, 936, 941, 942, 953, 956, 961, 962, 964,

966, 991, 1007
<223> n = A,T,C or G

<400> 31
ggttgaacca tccttgcatt nctgggatga atcccatctg atcatggtga aannttttata 60
ctcacaatat tgggggccat caccacancc natntccaaa acttttttcat cacaccaaac 120
agaaactctg tacctaccaa gcaataactc ctcatactcc ctgaccccag ctcctagtat 180
cctctattct gctttctgtc tccatgaatt tgccttttct aggtatctta cataaataga 240
atcataaaat atttgtccct ttgtgtctgg tttcttttac ttagaaatgt tttcaggctt 300
catctatgtt gtcaaatata tcagaatttc attccttttt aaggctggga taatatccct 360
aacagtggng tgaggatctc agttctccat ttcctaccaa cagtggtttt tccttttaaa 420
aaattatcat agccatccta ggatctgtct aatttggcac ataaggngtt actgtggaaa 480
ggagcacggg actacgcaga agtccaagcc taatcactaa cagactaaca gggggaggng 540
gacaatccgg gactctaagg gcctcaggtt cttttctcng gnaaaggggg agctaaanaa 600
tggccngcct ggccaaacct ganataaggg gggnggggaa aaanaaaggg nggccaaata 660
aaaaaaanct aagnacccag accncctaga aaaggggggg gangcttatt tatttttncc 720
ccagaaaagg ngaaaacctt aaangggngg ggcagnanaa ttggggccct ggttaaggca 780
ccccccttnaa tatccccncc ccntgggaac caggggnngg ggccctcaan aggggccctc 840
caaaaacatn ngnggaaaga aaggaangaa cctttaacaa ccngggtnnt gggnaaaggg 900
aantnnnang ggaaagggng gnccctntcn ngggnngggt nnaaggggga ccnganaaaa 960
nngngngggg aaaaatcccg ggccccgggg naaaacaaag gggaacnccc ccccccccaa 1020
aaaaaag 1027

<210> 32
<211> 1193
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 55, 56, 603, 635, 658, 681, 699, 703, 725, 731, 739, 752,
759, 775, 810, 817, 827, 831, 834, 840, 883, 891, 894, 902,
906, 915, 924, 937, 945, 946, 954, 959, 967, 968, 970, 971,
974, 975, 976, 977, 985, 986, 987, 989, 997, 1005, 1013
<223> n = A,T,C or G

<221> misc_feature
<222> 1014, 1015, 1019, 1050, 1052, 1053, 1054, 1055, 1061, 1062,
1063, 1072, 1081, 1088, 1089, 1094, 1098, 1099, 1102, 1103,
1124, 1125, 1139, 1158, 1176
<223> n = A,T,C or G

<400> 32
ggttctttaa aagaggtaag agcaacgtgc tttgggagca gagaagaggg agaanncagc 60
atcttgcctg gatgagccag gggacacaga agagaagccc actatctcat ttaatcttta 120
caactctctt gcaaggttcc ctggttgtga aaatacatga gataaatcat gaaggccact 180
atcatcctcc ttctgcttgc acaagtttcc tgggctggac cgtttcaaca gagaggctta 240
tttgacttta tgctagaaga tgaggcttct gggataggcc cagaagttcc tgatgaccgc 300
gacttcgagc cctccctagg cccagtgtgc cccttccgct gtcaatgcca tcttcgagtg 360
gtccagtgtt ctgatttggg tctggacaaa gtgccaaagg atcttccccc tgacacaact 420
ctgctagacc tgcaaaacaa caaaataacc gaaatcaaag atggagactt taagaacctg 480
aagaaccttc acgcattgat tcttgtcaac aataaaatta gcaaagttag tcctggagca 540
tttacacctt tggtgaagtt ggaacgactt tatctgtcca agaatcagct gaaggaattg 600
ccngaaaaaa tgcccaaaac tcttcaagga gctgnggtgc cccatgagaa tgagatcncc 660

caaagtgccg aaaaaggtac ntttcaatgg gacttgaanc ccnaagaatt ggtcattaaa 720
aactnggggc ncccaattnc ccctttaaaa anacttcang gaaattggaa aaatnggggg 780
ctttttcccc gggggaaatg gaaaaaaaan ttttttnctt aaaattnccc naanttgggn 840
tggatacccc caatatttcc ccccccgcct ttttccttcc aanggggggg nttncccccc 900
cntttnccct ttttncgggg gaanattaac ccctttnttt ttggnnggggg gggnccccna 960
aaaattnncn nccnnnnaaa atttnnntnt tgccccncct ttttnccccc ccnnnaaang 1020
gggggccggg ggaaaaaaaa attttggggn cnnnnaaaaa nnnggggggg antgggggaa 1080
nttttttnna aaanaaanna annttttttt ttttttttt tttnnaaaaa aaaaaaggnt 1140
ttttttttt ttccccccncc ccccccccccc cccctntttt ttgggggggg ggg 1193